

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|---|------------------|---------|------------------|
| L1 | 69052 | (pulse near width near modulat\$3) pwm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L2 | 1055806 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L3 | 6799 | (Bemf bemv beme (back near (emf emv eme electromotive (electro adj motive) electro-motive)))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L4 | 229957 | (power near2 (loss lose fail\$3 down interupt\$4 off fault)) powerloss powerlose powerfail\$3 powerdown powerinterupt\$4 poweroff powerfault power-loss power-lose power-fail\$3 power-down power-interupt\$4 power-off power-fault spin-down spindown (spin near down) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L5 | 2629252 | (retract\$3 load\$3 unload\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L6 | 11331 | L5 same L1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L7 | 72 | L2 and L3 and L4 and L6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| L8 | 706031 | transistor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |

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| L9 | 717386 | capacitor boost\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:18 |
| L10 | 57 | 7 and 8 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:19 |
| L11 | 47 | 10 and 9 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:19 |
| L12 | 96799 | "360".clas. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:19 |
| L13 | 3 | 11 and 12 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:19 |
| S1 | 2 | "20040100722" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:22 |
| S2 | 2 | "20030227707" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 09:05 |
| S3 | 26 | (US-20020141101-\$ or US-20020141102-\$ or US-20020176202-\$ or US-20030227707-\$).did. or (US-5204593-\$ or US-5325030-\$ or US-5455496-\$ or US-5495156-\$ or US-5729399-\$ or US-5768045-\$ or US-6025968-\$ or US-6094020-\$ or US-6140784-\$ or US-6160368-\$ or US-6362929-\$ or US-6396652-\$ or US-6476996-\$ or US-6549359-\$ or US-6563286-\$ or US-6566832-\$ or US-6594102-\$ or US-6631045-\$ or US-6650498-\$ or US-6765746-\$).did. or (RD-440188-\$).did. or (NNRD440188).tban. | US-PGPUB; USPAT; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:49 |

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| S4 | 2 | "6710964".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 09:38 |
| S5 | 67 | vacuum near slider | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 10:29 |
| S6 | 1054292 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:24 |
| S7 | 17 | S5 and S6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 10:38 |
| S8 | 104889 | (fly\$3 flight head transducer) near (height attitude gap (distance)) attitude fly-height flying-height flight-height | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 10:43 |
| S9 | 7787086 | reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:50 |
| S10 | 36408 | (increas\$3 augment\$3) near2 (rpm rpms speed velocity) with (spindle rotat\$6 dis\$1 platter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 11:07 |
| S11 | 11373 | S9 with S8 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 11:08 |
| S12 | 115 | S10 same S11 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 11:09 |
| S13 | 99 | S12 and S6 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 11:08 |

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| S14 | 60 | S10 with S11 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 11:10 |
| S15 | 53 | S13 and S14 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 11:10 |
| S16 | 21524 | load\$3 near2 (head transducer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:49 |
| S17 | 7904412 | reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3 slow\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S18 | 69053 | (S17 near4 (rpm rpms speed velocity)) with (spindle rotat\$6 dis\$1 platter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:53 |
| S19 | 97 | S16 same S18 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:53 |
| S20 | 1054292 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:54 |
| S21 | 77 | S19 and S20 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:56 |
| S22 | 35881 | (spindle near motor) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:56 |
| S23 | 14784 | (voice near coil near motor) vcm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:58 |

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| S24 | 62517 | (spindle spm) near4 driv\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:58 |
| S25 | 1427 | ((voice near coil near motor) (coil near motor) vcm) near4 driver | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:59 |
| S26 | 658 | S22 and S23 and S24 and S25 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 12:59 |
| S27 | 7 | S26 and S21 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:03 |
| S28 | 25 | (US-20010012176-\$ or US-20010012182-\$ or US-20010043438-\$ or US-20020030937-\$).did. or (US-5422760-\$ or US-5452277-\$ or US-5708540-\$ or US-5854720-\$ or US-5864444-\$ or US-6147841-\$ or US-6198603-\$ or US-6243222-\$ or US-6243226-\$ or US-6285521-\$ or US-6366429-\$ or US-6377418-\$ or US-6413608-\$ or US-6414809-\$ or US-6433966-\$ or US-6452750-\$ or US-6493184-\$ or US-6512650-\$ or US-6525909-\$ or US-6535353-\$ or US-6556381-\$).did. | US-PGPUB; USPAT | OR | ON | 2005/02/02 13:10 |
| S29 | 1054292 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S30 | 104889 | (fly\$3 flight head transducer) near (height attitude gap (distance)) attitude fly-height flying-height flight-height | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S31 | 7787086 | reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |

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| S32 | 36408 | (increas\$3 augment\$3) near2 (rpm rpms speed velocity) with (spindle rotat\$6 dis\$1 platter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S33 | 11373 | S31 with S30 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S34 | 115 | S32 same S33 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S35 | 99 | S34 and S29 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S36 | 60 | S32 with S33 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S37 | 53 | S35 and S36 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:35 |
| S38 | 21524 | load\$3 near2 (head transducer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S39 | 7904412 | reduc\$3 decreas\$3 attenuat\$3 abat\$3 shorten limit\$3 restrict\$3 curtail\$3 restrain\$3 slow\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S40 | 69053 | (S39 near4 (rpm rpms speed velocity)) with (spindle rotat\$6 dis\$1 platter) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S41 | 97 | S38 same S40 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |

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| S42 | 1054292 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S43 | 77 | S41 and S42 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:27 |
| S44 | 1 | S43 and S37 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/02 13:34 |
| S45 | 69052 | (pulse near width near modulat\$3) pwm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:23 |
| S46 | 1055806 | ((dis\$1 hard) near2 (drive apparatus)) HDA HDD DASD RAID platter (magnetic storage drive\$1 assembly) near2 (disk\$5 disc\$1 media medium device) (storage near2 drive\$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:24 |
| S47 | 48107 | (spindle near2 motor) spm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:24 |
| S48 | 706031 | transistor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |
| S49 | 21 | S45 same S47 same S48 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:29 |
| S50 | 19 | S46 and S49 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:41 |

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| S51 | 6799 | (Bemf bemv berne (back near (emf emv eme electromotive (electro adj motive) electro-motive))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:42 |
| S52 | 325333 | (detect\$3 determin\$3 sens\$3 calculat\$3) with phase | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:43 |
| S53 | 589 | S52 with S51 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:43 |
| S54 | 55 | S53 same S47 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:44 |
| S55 | 55 | S54 and S46 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:52 |
| S56 | 7 | ("6243222" "6396652" "5754355").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 11:53 |
| S57 | 0 | S56 and S45 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 12:05 |
| S58 | 229957 | (power near2 (loss lose fail\$3 down interrupt\$4 off fault)) powerloss powerlose powerfail\$3 powerdown powerinterrupt\$4 poweroff powerfault power-loss power-lose power-fail\$3 power-down power-interrupt\$4 power-off power-fault spin-down spindown (spin near down) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 12:07 |
| S59 | 2629252 | (retract\$3 load\$3 unload\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 12:08 |

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|-----|-------|-----------------------------|---|----|----|------------------|
| S60 | 11331 | S59 same S45 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 12:09 |
| S61 | 72 | S46 and S51 and S58 and S60 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/02/04 13:17 |